Substitute for form 1449A&B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				*Application Number*	10/678,946
				Filing Date	October 2, 2003
				First Named Inventor	Hong, Jong Wook
				Art Unit	1637
(Use as many sheets as necessary)				*Examiner Name*	Young J. Kim
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	EG							☐

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
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	FT	FIGEYS, DANIEL et al., "An Integrated Microfluidics-Tandem Mass Spectrometry System For Automated Protein Analysis," Analytical Chemistry, Vol. 70, No. 18, pp. 3728-3734, September 15, 1998				☐
	FU	FIGEYS, DANIEL et al., "Nanoflow Solvent Gradient Delivery From A Microfabricated Device For Protein Identifications By Electrospray Ionization Mass Spectrometry," Analytical Chemistry, Vol. 70, No. 18, pp. 3721-3727, September 15, 1998				☐
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	FW	FOTIN, ALEXANDER V. et al., "Parallel Thermodynamic Analysis Of Duplexes On Oilgodeoxyribonucleotide Microchips," Nucleic Acids Research, Vol. 26, No. 6, pp. 1515-1521, 1998				☐
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	FY	GINSBERG, MICHAEL A., "New Laser System Measure DNA Fragments," Biophotonics International, p. 20, November/December 1996				☐
	FZ	GOMBOTZ, W. R. et al., "Pegylation: A Tool To Enhance Protein Delivery," Abstracts of Papers, American Chemical Society, Vol. 217, Part 2, 2 pages, March 21-25, 1999				☐
	GA	GRANJEAUD, SAMUEL et al., "Expression Profiling: DNA Arrays In Many Guises," BioEssays, Vol. 21, pp. 781-790, 1999				☐
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	GC	GUNDERSON, KEVIN L. et al., "Mutation Detection By Ligation To Complete *n*-mer DNA Arrays," Genome Research, Vol. 8, pp. 1142-1153, 1998				☐
	GD	GUO, ZHEN et al., "Enhanced Discrimination Of Single Nucleotide Polymorphisms By Artificial Mismatch Hybridization," Nature Biotechnology, Vol. 15, pp. 331-335, April 1997				☐
	GE	HANCOCK, ROBERT E. W., "A Brief On Bacterial Biofilms," Nature Genetics, Vol. 29, p. 360, December 2001				☐
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	GH	HERBERT, D., "Continuous Culture Of Bacteria," The Journal of General Microbiology, Vol. 15, pp. 2 cover pages and iv, 1956				☐
	GI	HERBERT, D., "Continuous Culture Of Bacteria: Principles And Applications," Chemistry and Industry, pp. 381, March 29, 1958				☐
	GJ	HOHEISEL, JORG D., "Sequence-Independent And Linear Variation Of Oligonucleotide DNA Binding Stabilities," Nucleic Acids Research, Vol. 24, No. 3, pp. 430-432, 1996				☐
	GK	HONG et al., "Integration Of Gene Amplification And Capillary Gel Electrophoresis On A Polydimethylsiloxane-Glass Hybrid Microchip," Electrophoresis, Vol. 22, pp. 328-333, 2001				☐
	GL	HOPFGARTNER, GERARD et al., "Exact Mass Measurement Of Product Ions For The Structural Elucidation Of Drug Metabolites With A Tandem Quadrupole Orthogonal-Acceleration Time-Of-Flight Mass Spectrometer," Journal of The American Society for Mass Spectrometry, Vol. 10, pp. cover, 1305-1314, December 1999				☐

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	GM	HOSOKAWA, KAZUO et al., "Droplet-Based Nano/Picoliter Mixer Using Hydrophobic Microcapillary Vent," 1999 IEEE International Conference on Micro Electro Mechanical Systems, Technical Digest, pp. 388-393, 1999				☐
	GN	IBRAHIM et al., "Real-Time Microchip PCR For Detecting Single-Base Differences In Viral And Human DNA," Anal. Chem., Vol. 70, pp. 2013-2017, 1998				☐
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	GV	KANE et al., "Finite element analysis of nonsmooth contact", *Computer Methods in Applied Mechanics and Engineering*, 180(1-2):1-26 (1999)				☐

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	GX	KAWANO, YASUSHI et al., "Rapid Isolation And Identification Of Staphylococcal Exoproteins By Reverse Phase Capillary High Performance Liquid Chromatography-Electrospray Ionization Mass Spectrometry," FEMS Microbiology Letters, Vol. 189, pp. 103-108, 2000				☐
	GY	KHANDURINA et al., "Integrated System For Rapid PCR-Based DNA Analysis In Microfluidic Devices," Anal. Chem., Vol. 72, pp. 2995-3000, 2000				☐
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	HB	LANE, P. G., "Analysis Of A Continuous-Culture Technique For The Selection Of Mutants Tolerant To Extreme Environmental Stress," Biotechnology and Bioengineering, Vol. 65, No. 4, pp. 397-406, November 20, 1999				☐
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	HD	LAZAR, IULIA M. et al., "Novel Microfabricated Device For Electrokinetically Induced Pressure Flow And Electrospray Ionization Mass Spectrometry," Journal of Chromatography A, Vol. 892, pp. 195-201, 2000				☐
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	HG	LIN, YUEHE et al., "Laser Micromachined Isoelectric Focusing Device On Polymer Substrate For Electrospray Mass Spectrometry," SPIE, Vol. 3877, pp. 28-35, September 1999				☐

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	HL	MARTON, MATTHEW J. et al., "Drug Target Validation And Identification Of Secondary Drug Target Effects Using DNA Microarrays," Nature Medicine, Vol. 4, No. 11, pp. 1293-1301, November 1998				☐
	HM	MASTRANGELO, C. H. et al., "Vacuum-Sealed Silicon Micromachined Incandescent Light Source," IEDM, pp. 503-506, 1989				☐
	HN	MEINERS, JENS-CHRISTIAN et al., "Direct Measurement Of Hydrodynamic Cross Correlations Between Two Particles In An External Potential," Physical Review Letters, Vol. 82, No. 10, pp. 2211-2214, March 8, 1999				☐
	HO	MENCHEN, STEVE et al., "Flowable Networks As DNA Sequencing Media In Capillary Columns," Electrophoresis, Vol. 17, pp. 1451-1459, 1996				☐
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	HT	NOLAN, JOHN P. et al., "The Emergence Of Flow Cytometry For Sensitive, Real-Time Measurements Of Molecular Interactions," Nature Biotechnology, Vol. 16, pp. 633-638, July 1998				☐
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	HW	OAKLEY and Knight, " Adaptive dynamic relaxation algorithm for non-linear hyperelastic structures", *Computer Methods in Applied Mechanics and Engineering*, 126:67-89 (1995).				☐
	HX	OGDEN, "Elastic Deformations of Rubberlike Solids", in *Mechanics of Solids*, pp. 499-537 (1982)				☐
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	HIA	POPLAWSKI, M. E. et al., "A Simple Packaging Process For Chemical Sensors," Solid-State Sensor and Actuator Workshop, Hilton Head, South Carolina, pp. 25-28, June 13-16, 1994				☐
	IB	QU, MINGBO et al., "Toxicity And Biodegradation Of Formaldehyde In Anaerobic Methanogenic Culture," Biotechnology and Bioengineering, Vol. 55, No. 5, pp. 727-736, September 5, 1997				☐
	IC	ROTMAN, BORIS, "A Simplified Device For Continuous Growth Of Microorganisms," Journal of Bacteriology, Vol. 70, pp. 485-486, 1955				☐

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	ID	SCHENA, MARK et al., "Quantitative Monitoring Of Gene Expression Patterns With A Complementary DNA Microarray," Science, Vol. 270, pp. 467-470, October 20, 1995				☐
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	IF	SCHULLEK, JOHN R., "A High-Density Screening Format For Encoded Combinatorial Libraries: Assay Miniaturization And Its Application To Enzymatic Reactions," Analytical Biochemistry, Vol. 246, pp. 20-29, 1997				☐
	IG	SHEVCHENKO, ANDREJ et al., "Rapid *'de Novo'* Peptide Sequencing By A Combination Of Nanoelectospray, Isotopic Labeling And A Quadrupole/Time-Of-Flight Mass Spectometer," Rapid Communications in Mass Spectrometry, Vol. 11, pp. 1015-1024, 1997				☐
	IH	SHINOHARA, JUN et al., "A High Pressure-Resistance Micropump Using Active And Normally-Closed Valves," IEEE, pp. 86-91, 2000				☐
	II	SHULER, MICHAEL L. et al., "Chapter 6 - How Cells Grow," Bioprocess Engineering Basic Concepts, Second Edition, pp. 2 cover pages and 155-200, 2002				☐
	IJ	SKLAR, LARRY A. et al., "Sample Handling For Kinetics And Molecular Assembly In Flow Cytometry, SPIE, Vol. 3256, pp. 144-153, 1998				☐
	IK	SOSNOWSKI, RONALD G. et al., "Rapid Determination Of Single Base Mismatch Mutations In DNA Hybrids By Direct Electric Field Control," Proc. Natl. Acad. Sci. USA, Vol. 94, pp. 1119-1123, Februay 1997				☐
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	IO	STOMAKHIN, ANDREY A. et al., "DNA Sequence Analysis By Hybridization With Oligonucleotide Microchips: MALDI Mass Spectrometry Identification Of 5mers Contiguously Stacked To Microchip Oligonucleotides," Nucleic Acids Research, Vol. 28, No. 5, pp. 1193-1198, 2000				☐
	IP	STUDER et al., "Nanoembossing of thermoplastic polymers for microfluidic applications", Applied Physics Letters 80:3614-16 (2002)				☐
	IQ	SWART, REMCO et al., "Recent Progress In Open Tubular Liquid Chromatography," Trends in Analytical Chemistry, Vol. 16, No. 6, pp. 332-342, 1997				☐
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	IT	THOMPSON, H. GARRETT R. et al., "Identification And Confirmation Of A Module Of Coexpressed Genes," Genome Research, Vol. 12, pp. 1517-1522, 2002				☐
	IU	TYAGI et al., "Molecular Beacons: Probes that Fluoresce upon Hybridization," Nature Biotechnology, 14:303-308 (1996).				☐
	IV	UMDANHOWAR, P. B. et al., "Monodisperse Emulsion Generation Via Drop Break Off In A Coflowing Stream," Langmuir, Vol. 16, pp. 347-351, 2000				☐
	IW	UNDERWOOD et al., "Dynamic relaxation", in *Computational Methods for Transient Dynamic Analysis*, Belytschko and Hughes, eds., pp. 245-265, Elsevier Science Publishers, Amsterdam (1983).				☐
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	IZ	VAN ORDEN, ALAN et al., "High-Throughput Flow Cytometric DNA Fragment Sizing," Anal. Chem., Vol. 72, No. 1, pp. 37-41, January 1, 2000				☐
	JA	VERONESE, F. M. et al., "Influence Of PEGylation On The Release Of Low And High Molecular-Weight Proteins From PVA Matrices," Journal of Bioactive and Compatible Polymers, Vol. 14, pp. 315-330, July 1999				☐
	JB	VERONESE, FRANCESCO M., "Peptide And Protein PEGylation: A Review Of Problems And Solutions," Biomaterials, Vol. 22, pp. 405-417, 2001				☐
	JC	VOGELSTEIN, BERT et al., "Digital PCR," Proc. Natl. Acad. Sci. USA, Vol. 96, pp. 9236-9241, August 1999				☐
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	JE	WATERS, L. C. et al., "Microchip Devices For Cell Lysis, Multiplex PCR Amplification, And Electrophoretic Sizing," Analytical Chemistry, Vol. 70, No. 1, pp. 158-162, January 1, 1998				☐
	JF	WEBSTER, J. R. et al., "Monolithic Capillary Gel Electrophoresis Stage With On-Chip Detector," IEEE, pp. 491-496, 1996				☐
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Substitute for form 1449A&B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				*Application Number*	10/678,946
				Filing Date	October 2, 2003
				First Named Inventor	Hong, Jong Wook
				Art Unit	1637
(Use as many sheets as necessary)				*Examiner Name*	Young J. Kim
Sheet	18	of	19	*Attorney Docket Number*	20174C-010310US

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Examiner Initials*	Cite No.[1]	Foreign Patent Document (Country Code[3] Number[4] Kind Code[5] (*if known*))	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]
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	JU	ZDEBLICK, MARK J. et al., "A Microminiature Electric-To-Fluidic Valve," Transducers '87, Proceedings of the 4th International Conference on Solid-State Sensors and Actuators, reprinted in Micromechanics and MEMS Classic and Seminal Papers to 1990, pp. 2 cover pages, 437-439, June 1987				☐
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	JI					☐
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